Radiation Protection Culture and IOMP

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• The head of the department wants that any patient coming to his facility should have confidence that he/she is going to get radiation dose lower than reference level and lowest dose while maintaining the diagnostic confidence.
Example of a system in place for patient protection = Culture

Similar situation about staff protection
What does it include for Medical Physicist

- BSS requirements
- Training of medical staff
- Equipment QC testing
- Dose evaluations
- Risk estimations and communication
- Protocol optimizations
- Periodic and regular monitoring of doses
- Creating and monitoring of the system of dose and quality management
Numerous situation of RP

Radiation-induced Skin Injuries from Fluoroscopy
Taken from US FDA website.

Condition of patient's back after eight weeks following radiofrequency ablation therapy
Appearance of skin injury approximately 18 to 21 months following procedures, evidencing tissue necrosis.
Close-up view of lesion shown in the middle photo
Medical Physicists are best informed about principles of radiation protection and how to apply them in day-to-day practice.
I have this patient who has undergone 5 CT scans already in the last 6 months. I need to decide about another CT scan that I am considering.
Mission of IOMP

IOMP = About 18,000 MP in 80 countries

To advance medical physics practice worldwide by:

• Disseminating scientific and technical information,

• Fostering the educational and professional development of medical physicists, and

• Promoting the highest quality medical services for patients.
OBJECTIVES of IOMP

- Organise international cooperation in medical physics
- Promote communication between medical physics and allied subjects
- Advance medical physics in all aspects
- Support national organisations
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• EFOMP: Europe
• ALFIM: Latin America
• AFOMP: Asia-Oceania
• SEAFOMP: South East Asia
• MEFOMP: Middle East
• FAMPO: Africa
For deliberation?

1. If RPC is part of RSC (radiation safety culture), then what is the problem in using RSC which is easier to pronounce and is more in line with commonly used terms?

2. Safety culture is applicable to hospitals and management can be easily motivated to it. Is there example of another medical subject using specialized nomenclature of safety or protection (e.g. infection, or even equipment safety by engineers)?
Thank You

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